

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
30 June 2005 (30.06.2005)

PCT

(10) International Publication Number
WO 2005/059138 A1

(51) International Patent Classification?: **C12N 15/36,**
A61P 31/22, C12Q 1/68

#02-01, Genome Institute of Singapore, Singapore 138672 (SG).

(21) International Application Number:
PCT/SG2004/000368

(74) Agents: **VIERING, JENTSCHURA PARTNER** et al.;
P.O. Box 1088, Rochor Road, Rochor Post Office, Singapore 911833 (SG).

(22) International Filing Date:
12 November 2004 (12.11.2004)

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/529,632 16 December 2003 (16.12.2003) US

(71) Applicant (for all designated States except US): **AGENCY FOR SCIENCE, TECHNOLOGY AND RESEARCH** [SG/SG]; 20 Biopolis Way, #07-01 Centros, Singapore 138668 (SG).

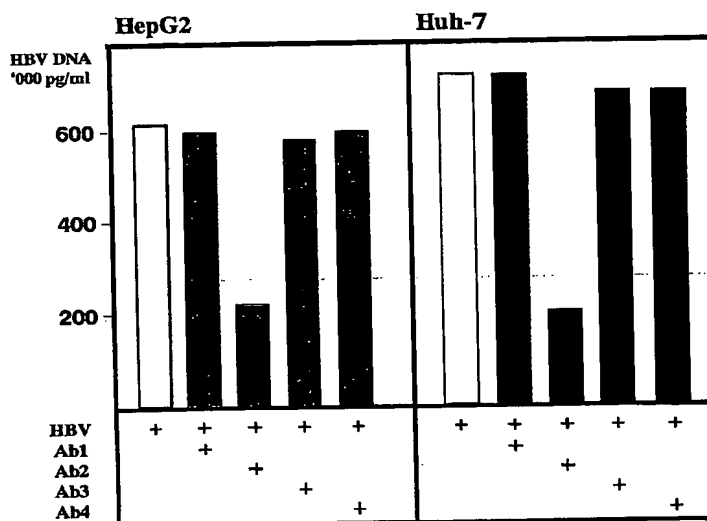
(72) Inventors; and

(75) Inventors/Applicants (for US only): **NG FONG POH,** Lisa [SG/SG]; 60 Biopolis Street, Genome #02-01, Genome Institute of Singapore, Singapore 138672 (SG). **REN, Ee, Chee** [SG/SG]; 60 Biopolis Street, Genome

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE,

[Continued on next page]

(54) Title: METHODS AND COMPOUNDS FOR ALTERING THE LOAD OF HEPATITIS VIRUS



(57) Abstract: The present invention relates to a method for altering the load of a Hepatitis virus present in an infected host organism. The method involves modulation of the complex formation of a heterogeneous nuclear ribonucleoprotein K (hnRNP K) and the regulatory region of a Hepatitis virus, enhancer II region. Additionally there are methods of identifying compounds that modulate complex formation, and the use of such compounds in diagnosis of a Hepatitis infection. The present invention also relates to a mutation in enhancer II region at position 1752 of the virus sequence which reduces the binding affinity of hnRNP K with the enhancer II region.